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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,512	03/04/2002	Marko Kangasniemi		6468

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Parker-Hannifin Corporation
6035 Parkland Boulevard
Cleveland, OH 44124-4141

[REDACTED] EXAMINER

SAVAGE, MATTHEW O

ART UNIT	PAPER NUMBER
1723	4

DATE MAILED: 04/11/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary	Application N .	Applicant(s)
	10/090,512	KANGASNIEMI ET AL.
Examiner	Art Unit	
Matthew O Savage	1723	

-- Th MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Peri d f r Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-12 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> .	6) <input type="checkbox"/> Other: _____.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-4, and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 4 of claim 2, "the piston" lacks antecedent basis.

On lines 2-3 of claim 3, "the lower counterpressure" lacks antecedent basis.

On line 6 of claim 12, "said pressures of different elements" lacks antecedent basis.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, and 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Adams '846.

With respect to claim 1, Adams discloses a filtering apparatus including an inlet channel 14 for flow to be filtered, an outlet channel 16 for filtered flow, a number of parallel filtering elements 34 to which flow to be filtered may be directed so that infiltration occurs through a jacket of an element, and a rotating washing organ 50 connecting alternatively to different elements for forming a discharge channel for back

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flushing of the elements generated with the pressure of the filtered flow, and a freewheel clutch 67 connected to a rotating axle 47 of the washing organ, wherein the clutch converts reciprocating movement generated with pressure of the flow in the apparatus (e.g., via conduit 74) and alternating lower pressure (e.g., via drain connection 87) into a continuously parallel, stepping rotary movement of the axle (e.g., via cylinder 73 and associated connections shown in FIG. 6).

Concerning claim 2, Adams discloses a coupling organ 67 driving the rotating axle of the washing organ, which is in alternately in sliding contact with the axle and which alternately locks onto the axle for rotating the axle, the coupling organ being articulated to the piston 72 reciprocating on the alternating pressure.

As to claim 3, Adams discloses channels and coupling valves for coupling the pressure of the filtered flow and the lower counter pressure alternately to different sides of the piston (see FIGS. 6-7).

Regarding claim 4, Adams discloses the pressure in the discharge channel of the backwashing flow as being coupled to the counter pressure for the pressure of the filtered flow since both the discharge channel 60 and channel 87 for the counter are pressure are coupled to a drain that is at atmospheric pressure.

Concerning claim 5, Adams discloses the filtering elements 34 as being cylindrical and arranged on a circumference surrounding the axle of the washing organ (see FIGS. 1-2).

As to claim 6, Adams discloses the washing organ as being a washing arm transverse to the rotating axle (see FIG. 1).

Claim 9 relates to intended use and carries no patentable weight.

With respect to claim 10, Adams discloses a method of washing filtering elements in a filtering apparatus which includes an inlet channel 14 for flow to be filtered, an outlet channel 16 for filtered flow, and a number of parallel filtering elements 34 into which the flow to be filtered is directed so that infiltration occurs through an element jacket, the method of washing being achieved by connecting different elements alternatively to a washing organ 50 so that washing is carried out by a back flushing directed to the washing organ with the pressure of the filtered flow, and a rotating axle 47 of the washing organ is rotated in a stepping manner continuously in the same direction using a reciprocating mechanism 73, the reciprocating movement of which is generated with the pressure of the flow prevailing in the apparatus (e.g., via connection 74) and alternating lower pressure (e.g., via drain connection 87).

Regarding claim 11, Adams discloses the axle of the washing organ as being rotated with the pressure of the filtered flow (e.g., the "main water supply" which would include the "filtered flow", see line 15 of col. 4) and with the lower pressure (e.g., the drain) alternating with the filtered flow pressure.

With respect to claim 12, Adams discloses the steps of the washing organ as being generated with a freewheel clutch 67 including a coupling organ 67 driving the rotating axle of the washing organ, the coupling organ being in alternately sliding contact with the axle for rotating the axle, the moving of the coupling organ being carried out with a piston 72 articulated with the coupling organ, the piston being moved

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back and forth by connecting the said pressures of different elements alternately to different sides of the piston.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adams '846 in view of Adams '248.

With respect to claim 7, Adams '846 fails to specify two or more washing organs connected to the same rotating axle. Adams '248 discloses two or more washing washing organs 124, 124' and suggests that the organs provide thorough backwashing for two concentric arrays of relatively long cylindrical filtering elements. It would have been obvious to have modified the '846 apparatus so as to have included two or more washing organs in order to provide through backwashing for two concentric arrays of relatively long filter elements.

Concerning claim 8, a washing organ at both ends of the parallel filtering elements that are made as one piece with the rotating axle.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew O Savage whose telephone number is 703-308-3854. The examiner can normally be reached on Monday-Friday, 6:00am-2:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda W. Walker can be reached on 703-308-0457. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

M. Savage
Matthew O Savage
Primary Examiner
Art Unit 1723

mos
April 9, 2003